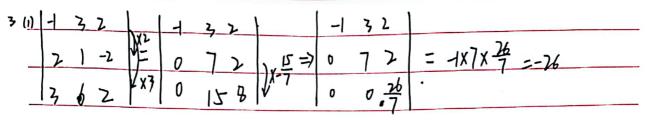
第四章, 求解线性方程组的直接的 1. un Gauss tank. 0.002 37.13 37.5 0,002 87.13 87.15 14.413. 7.76 37.27 -1.940 No5 -1.940 Xo5 み主えり (0.002 37.13 37.15) = (4.453 -7.26 37.27) = (4.453 -7.26 37.27) 14.453 -7.26 37.27 37.13 8].1] 得 | がこ /0、00 X2= 1.000 (2) Gaussilfait. |0.01 -69.67 -137.93 \= 0.01 -69.47 -133.93 \=> (X=-5.947 0 -1.396 x/64 -2,79/x/64 20/ 3.7/ 1.01 对主元法 [0.01 -69.4] -133.93 \- [2.01 3.5] 1.01

フ・動。  $\frac{3}{2} - \frac{1}{1} + \frac{3}{3} + \frac{2}{1} + \frac{3}{3} + \frac{2}{1} + \frac{3}{3} + \frac{2}{1} + \frac{3}{3} + \frac{2}{1} + \frac{2}{1$ 



★ 红叶纸品

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子(1) 系数矩阵的Dolithu与解力

(2) 杂数配序的Doulitus分解为

$$\frac{4}{100} \frac{1}{100} \frac{1}$$

6(1) 表数规阵的Cout 分解的

OI 系数矩阵的 Chut 分解为

7. 杂数矩阵的 Bolith 分解的

華麗 DY=Z 那 
$$\begin{pmatrix} -b \\ \hline \end{pmatrix}$$
  $\begin{pmatrix} y_1 \\ y_2 \\ \hline \end{pmatrix}$  =  $\begin{pmatrix} -4 \\ 4 \\ y_3 \end{pmatrix}$  =  $\begin{pmatrix} y_1 \\ y_2 \\ \hline \end{pmatrix}$  =  $\begin{pmatrix} -4 \\ 4 \\ y_3 \end{pmatrix}$  =  $\begin{pmatrix} y_1 \\ y_2 \\ \hline \end{pmatrix}$  =  $\begin{pmatrix} -4 \\ 4 \\ y_3 \end{pmatrix}$  =  $\begin{pmatrix} y_1 \\ y_2 \\ y_3 \end{pmatrix}$  =  $\begin{pmatrix} -4 \\ 4 \\ y_3 \end{pmatrix}$  =  $\begin{pmatrix} y_1 \\ y_2 \\ y_3 \end{pmatrix}$  =  $\begin{pmatrix} -4 \\ 4 \\ y_3 \end{pmatrix}$  =  $\begin{pmatrix} y_1 \\ y_2 \\ y_3 \end{pmatrix}$  =  $\begin{pmatrix} -4 \\ 4 \\ y_3 \end{pmatrix}$  =  $\begin{pmatrix} y_1 \\ y_2 \\ y_3 \end{pmatrix}$  =  $\begin{pmatrix} -4 \\ 4 \\ y_3 \end{pmatrix}$  =  $\begin{pmatrix} y_1 \\ y_2 \\ y_3 \end{pmatrix}$  =  $\begin{pmatrix} -4 \\ 4 \\ y_3 \end{pmatrix}$  =  $\begin{pmatrix} y_1 \\ y_2 \\ y_3 \end{pmatrix}$  =  $\begin{pmatrix} -4 \\ 4 \\ y_3 \end{pmatrix}$  =  $\begin{pmatrix} -4$ 

= LU 解以之 那  $\frac{3}{11} \frac{11}{11} \frac{11}{11} = \frac{1}{11} \frac{11}{11} \frac{11$ y = (fi-C, yo)/x = -2 /2= (f2-C2/1)/d2=-4 /3=(f3-C2/2)/x=2 1 d4 = aa - Capz = 7-2x3= | X4= X4= | X3= Y3-B3 X4= Z-3x =- | B4= 64/24=0 X2=/2-B2X3=-4-(3X-1)= $y_4 = (f_4 - c_4 y_3) / L_4 = 1$   $x_1 = y_1 - \beta_1 x_2 = -2 - 3 \times (-1) = 1$ (2)  $\alpha_1 = \alpha_1 = 10$   $\alpha_2 = \alpha_2 - \alpha_3 = 2 - 2 \times \frac{1}{2} = \frac{1}{2}$  $\beta_1 = b_1/d_1 = \frac{1}{2}/b_2 = \frac{1}{2}$   $\beta_2 = b_2/d_2 = \frac{1}{2}$   $\beta_3 = b_1/d_3 = \frac{1}{2}/9$ Y=f,-C,y0) | x = = > >= (f2-(2/1) / 05=2 Y3=(f3-(3/2)/x3=9  $\frac{Q_4 = Q_4 - Q_3 B_4}{Q_4 = Q_4} = \frac{1}{1 - 2} \times \frac{1}{q} = -\frac{1}{q} \times \frac{1}{4} = \frac{1}{4} \times \frac{1}{4} = \frac{1$ 8000 194=(f4-C4 /3) /d4 = -4 8 X2 = /2-82X3 = 2-1X 5=3. X1=1-71X2= =-=X-3=2

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(2) 条数矩阵的配little分解力: